



# Rabbit Anti-Human AIF Polyclonal Antibody (CABT-L2123)

This product is for research use only and is not intended for diagnostic use.

## PRODUCT INFORMATION

<b>Product Overview</b>	Polyclonal Antibody to Apoptosis Inducing Factor (Knockout Validated)
<b>Specificity</b>	The antibody is a rabbit polyclonal antibody raised against AIF. It has been selected for its ability to recognize AIF in immunohistochemical staining and western blotting.
<b>Target</b>	AIF
<b>Immunogen</b>	Recombinant fragment corresponding to human AIFM1 (Gly103~Lys322)
<b>Isotype</b>	IgG
<b>Source/Host</b>	Rabbit
<b>Species Reactivity</b>	Human, Pig
<b>Purification</b>	Antigen-specific affinity chromatography followed by Protein A affinity chromatography
<b>Conjugate</b>	Unconjugated
<b>Applications</b>	WB
<b>Format</b>	Liquid
<b>Concentration</b>	Lot specific
<b>Size</b>	200 µg
<b>Buffer</b>	Supplied as solution form in 0.01M PBS with 50% glycerol, pH7.4.
<b>Preservative</b>	0.05% Proclin-300
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 4°C for frequent use. Aliquot and store at -20°C for 12 months.
<b>Ship</b>	4°C with ice bags
<b>Warnings</b>	For research use only.

## BACKGROUND

<b>Introduction</b>	This gene encodes a flavoprotein essential for nuclear disassembly in apoptotic cells, and it is found in the mitochondrial intermembrane space in healthy cells. Induction of apoptosis results in the translocation of this protein to the nucleus where it affects chromosome condensation and fragmentation. In addition, this gene product induces mitochondria to release the apoptogenic proteins cytochrome c and caspase-9. Mutations in this gene cause combined oxidative phosphorylation deficiency 6, which results in a severe mitochondrial encephalomyopathy. Alternative splicing results in multiple transcript variants. A related pseudogene has been identified on chromosome 10. [provided by RefSeq, May 2010]
<b>Keywords</b>	PDCD8;Programmed Cell Death protein 8;Apoptosis-inducing factor 1, mitochondrial

## GENE INFORMATION

<b>Gene Name</b>	AIFM1 apoptosis-inducing factor, mitochondrion-associated, 1 [ Homo sapiens (human) ]
<b>Official Symbol</b>	AIFM1
<b>Synonyms</b>	AIFM1; apoptosis-inducing factor, mitochondrion-associated, 1; AIF; CMT2D; CMTX4; COWCK; NADMR; NAMSD; PDCD8; COXPD6; apoptosis-inducing factor 1, mitochondrial; striatal apoptosis-inducing factor; programmed cell death 8 (apoptosis-inducing factor); Neuropathy, axonal motor-sensory, with deafness and mental retardation; neuropathy, axonal, motor-sensory with deafness and mental retardation (Cowchock syndrome);
<b>Protein Refseq</b>	NP_001124318
<b>UniProt ID</b>	<a href="#">O95831</a>
<b>Chromosome Location</b>	Xq26.1
<b>Pathway</b>	Apoptosis; Apoptosis Modulation by HSP70; Ceramide signaling pathway;
<b>Function</b>	DNA binding; FAD binding; NAD(P)H oxidase activity; electron carrier activity; oxidoreductase activity, acting on NAD(P)H; protein binding; protein dimerization activity;